

Amendments to the Claims

This listing of claims will replace all prior versions, and listing of claims in the application.

1-19. (Cancelled)

20. (New) An isolated nucleic acid molecule comprising a polynucleotide selected from the group consisting of:

- (a) a polynucleotide encoding amino acids 1 to 746 of SEQ ID NO:2;
- (b) a polynucleotide encoding a protein containing amino acids of SEQ ID NO:2, wherein a stop codon shortens the protein by 47 C-terminal amino acids; and
- (c) a polynucleotide complementary to the polynucleotide of (a) or (b).

21. (New) The nucleic acid molecule of claim 20, wherein said polynucleotide is (a).

22. (New) The nucleic acid molecule of claim 21, wherein said polynucleotide comprises nucleotides 90-2330 of SEQ ID NO:1.

23. (New) The nucleic acid molecule of claim 20, wherein said polynucleotide is (b).

24. (New) The nucleic acid molecule of claim 20, wherein said polynucleotide is (c).

25. (New) A vector comprising the isolated nucleic acid molecule of claim 20.

26. (New) A method of producing a vector comprising inserting the isolated nucleic acid molecule of claim 20 into a vector.

27. (New) An isolated recombinant DNA molecule comprising:

- (a) the isolated DNA molecule of claim 20; and
- (b) expression control sequences.

28. (New) A host cell comprising the isolated nucleic acid molecule of claim 20.

29. (New) The host cell of claim 28 that is prokaryotic.

30. (New) The host cell of claim 28 that is eukaryotic.

31. (New) The host cell of claim 28 wherein said isolated nucleic acid molecule is operably associated with a heterologous regulatory sequence.

32. (New) A method of producing a polypeptide comprising culturing the host cell of claim 28 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

33. (New) An isolated nucleic acid molecule comprising:

- (a) a polynucleotide comprising nucleotides 1-489 of SEQ ID NO:5, or portions, variants or mutants thereof;
- (b) a polynucleotide complementary to the polynucleotide of (a).

34. (New) The nucleic acid molecule of claim 33, wherein said polynucleotide is (a).

35. (New) The nucleic acid molecule of claim 34, wherein said polynucleotide comprises nucleotides 1-355 of SEQ ID NO:5.

36. (New) The nucleic acid molecule of claim 34, wherein said polynucleotide shows about 97% identity with SEQ ID NO:5.

37. (New) The nucleic acid molecule of claim 33, wherein said polynucleotide is (b).

38. (New) A vector comprising the isolated nucleic acid molecule of claim 33.

39. (New) A method of producing a vector comprising inserting the isolated nucleic acid molecule of claim 33 into a vector.

40. (New) An isolated recombinant DNA molecule comprising:

- (a) the isolated DNA molecule of claim 33; and
- (b) expression control sequences.

41. (New) A host cell comprising the isolated nucleic acid molecule of claim 33.

42. (New) The host cell of claim 41 that is prokaryotic.

43. (New) The host cell of claim 41 that is eukaryotic.

44. (New) The host cell of claim 41 wherein said isolated nucleic acid molecule is operably associated with a heterologous regulatory sequence.

45. (New) A method of producing a polypeptide comprising culturing the host cell of claim 41 under conditions such that said polypeptide is expressed, and recovering said polypeptide.